### USET TRIBAL PEER REVIEW EVALUATION

Address:				Southern or Northern District:		
			Re	eviewer Name:_		
			Da	ate:		
Cont	act Name:	·	Tr	ibe/Nation:		
Oper	ator Name	e:				
-						
Phon	ie #:					
			Well	Water Sources	I	
1.	facility		posted or on file at the treatment system office?	nt 8.	Are there adequ Q Yes Q No	ate well seals?
2.	Is adeq	uate wel	lhead protection being	9.	Were wells drill Q Yes Q No	led by a certified well driller?
		nented?				
	<b>Q</b> Yes	<b>Q</b> No		10.	What is the dep	th of the casing?feet
3.	Is the v	vell:		11.	What is the dep	th of grouting?feet
	<b>Q</b> Yes	<b>Q</b> No	More than 50 feet from a			
	Q Yes	Q No	septic tank? More than 100 feet from a septic tank absorption field?	12.	sampling cock ( turned down an	ave a suitable raw water (For example: smooth nosed, d no threads) before or after the
	Q Yes	Q No	More than 10 feet from a		check valve?	Q Yes Q No
	Q Yes	Q No	sewer? More than 1,000 feet from a solid waste disposal site?	13.	and used proper Q Yes Q No	gauge available, in good repair ly?
	Q Yes	<b>Q</b> No	Near any open, abandoned wells?	14.	Are foot/check	valves accessible for cleaning?
	Q Yes	<b>Q</b> No	Protected from other sources of possible contamination?	1	Q Yes Q No	varies accession for creating.
	Q Yes	Q No	Withdrawing more than 10,000gpd?	15.	Does the pumpl Q Yes Q No Q Yes Q No	nouse interior:  Appear well maintained?  Have ponding of water on
4.		vell site s <b>Q</b> No	subject to flooding?		Q Yes Q No	the floor? Have floor drains that lead to a
5.			properly graded to channel wate	er		dry well to a sewer or septic tank?
	away fi	rom the v			Q Yes Q No	Are there cracks in the floor?
6.			wells in the zone of influence?	16.		ldings properly maintained and ected from vandals?
	<b>Q</b> Yes	<b>Q</b> No				
7.	the wel		nprotected direct openings into ounding the well?			

## WELL WATER SOURCES I

		Water System Name:
		Operator Name:
		Reviewer Name:
		Date:
17.	Is the air/vacuum relief valve properly insta and screened ? Q Yes Q No	lled
18.	Are check valves, blowoff valves, and water meters maintained and operating properly?  Q Yes Q No	·
19.	Is well discharge piping properly equipped well to distribution? (Check all that apply)  Q Check Valve  Q Pressure Gauge  Flow Measuring Device Q Shutoff Valve	
20.	Are pumps and motors adequately protected	
	(Check all that apply) Q Lighting Q Single Phase Q Low Suction Q Other	
21.	Are all chemicals, lubricants, and fuels propstored segregating incompatible chemicals?  Q Yes Q No	
22.	Is adequate spill protection and containmen place around chemical and fuel storage tank Q Yes Q No	t ins?
23.	Are there provisions for emergency chlorination? <b>Q</b> Yes <b>Q</b> No	
24.	Does the Tribe/Nation have an approved W Supply? Q Yes Q No	ater
	Supply: Q Tes Q No	
Recom	nmendations:	
recon		

### WATER TREATMENT II

Attach a sketch of the treatment train and

Are as-built drawings of the plant available?

Do there appear to be design flaws with the

What pretreatment chemicals and processes

Are chemical application points optimally

placed so they do not cancel or conflict with each other? (For example: chlorine and

Are chemical dosages calculated properly?

Is the water supply line to the chemical feed

**Q** copper sulfate

**Q** chlorine

**Q** activated carbon

Q other

are used to deal with water quality challenges? (Check all that apply) **Q** potassium permanganate **Q** lime

indicate where chemicals are added.

Are flows within design specification?

Are additional processes or equipment

Q Yes Q No

Q Yes Q No

Q Yes (explain) Q No

Q Yes (explain) Q No

**Q** sodium hydroxide

Q sodium carbonate

activated carbon)

Q Yes Q No

Q Yes Q No

Q Yes Q No

Q Yes Q No

Are chemicals properly stored?

system properly safeguarded?

**Q** aeration

**Q** sodium bicarbonate

system?

needed?

Chemical-General

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2.

3.

4.

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10.

	ewer Name:
11.	Is chemical feed equipment properly maintained, calibrated, and in good operating condition?  Q Yes Q No (explain)
12.	Are there sufficient alternative processes, spare parts, and backup equipment?
	Q Yes Q No (explain)
13.	Do the daily logs accurately record all chemicals added to the water?
	Q Yes Q No
14.	Does the plant have an on-site chemical Quality Assurance/Quality Control progra
	Q Yes Q No
15.	What process control testing is done to determine effectiveness of treatment? (Chall that apply)  Q jar testing Q stream current detectors Q hardness Q temperature Q other Q other Q other
16.	Are safe practices followed during chemic handling and mixing?
	Q Yes Q No
17.	Are there adequate spill containment provisions?
	Q Yes Q No Explain:

18.	Is appropriate safety equipment available and in use? (For example: self-contained breathing apparatus, goggles, gloved, eye wash, etc.)  Q Yes Q No		
19.	Have operators been trained to use the safety equipment?		
	Q Yes Q No		
20.	Are the appropriate lighting, guards and railing, etc. in place?		
	Q Yes Q No		
	WATER TR		
	Operato		stem Name:
	Review	er:	
	Date:		······································
21.	Are there other safety concerns such as electrical hazards? Q Yes Q No		disinfectant point and the first point of use? Q Yes Q No
22.	Can the operator answer basic questions about	28.	What are the contact time values for the plant?(1cq)
	the treatment process, including what is done, as well as when and why things are done?  Q Yes Q No	Нуро	chlorite
23.	Is operator training needed on any aspect of	29.	Is hypochlorite used for disinfection?  Q Yes What type
	operation and maintenance?  Q Yes Q No		<b>Q</b> No (Go to question 49)
24.	Have there been any interruptions in disinfection? Yes (explain) <b>Q</b> No	30.	Where are the application points for hypochlorite? (Check all that apply) Q Intake Plash Mix Q Flocculation Basin Q Top
			of Filters Q Sedimentation Basin Q Clearwell Q Other
25.	Is there at least a 0.2 mg/l disinfectant residual throughout the distribution system at all times?	31.	Do daily operating records reflect hypochlorite dosages, chlorine residuals, etc.?  Q Yes Q No
	Q Yes Q No		
26.	What disinfectant residual is maintained at the plant tap?	32.	Is the hypochlorite feed pump rate in proportion to the rate of flow through the plant?
27.	Is there sufficient contact time between the		Q Yes Q No

33.	Q Yes Q No		
34.	When was the latest calibration of the chemic feed equipment?	cal	
35.	Is there an alarm tied to interruptions in hypochlorite feed?  Q Yes Q No		
36.	Are instrumentation and automatic and manucontrols for the process Adequate? Q Yes Q No Operational? Q Yes Q No Utilized? Q Yes Q No	al	
37.	Are there sufficient Backup equipment? Alternate processes? Spare parts?  Q Yes Q No Q Yes Q No		
38.	What is the condition of the: Chemical Feed equipment? Q Poor Q Fair Q Good Q Excellent Back up equipment? Q Poor Q Fair Q Good Q Excellent Spare parts? Q Poor Q Fair Q Good Q Excellent Day tanks? Q Poor Q Fair Q Good Q Excellent		
39.	How often are the pumps and injection lines cleaned?		
40.	Is the solution tank covered to minimize corrosive vapors?  Q Yes Q No		
		•	TMENT II stem Name:
	F	Reviewer:	
41.	Are safe practices followed during chemical handling and mixing?  Q Yes Q No	43.	Q Yes Q No  Are the appropriate lighting, guards and railings
42.	Is appropriate safety equipment available and use? (For example: self-contained breathing	in	etc., in place? Q Yes Q No
	apparatus, goggles, gloves, eyewash, etc.)	44.	Are there other safety concerns such as electrical

	hazards? Q Yes  Q No
45.	Are there adequate spill containment provisions?  Q Yes Q No
46.	Are there any cross connections between the chemical feed makeup Water and injection points?  Q Yes Q No
47.	Are there any cross connections in the piping that provides split feed to both raw and finished water?  Q Yes Q No
48.	Can the operator answer basic questions about the treatment process, including what is done, as well as when and why things are done?  Q Yes Q No
Chlorine	e Gas
49.	Is chlorine gas being used Q Yes Q No (Go to question 88)
50.	Where are the injection points for chlorine? (Check all that apply) Q Intake Q Flash Mix Q Flocculation Basin Q Top of Filters Q Plant Pond Q Post Mixer Q Sedimentation Basin Q Clearwell Q Other
51.	What is the average daily chlorine usage (in
52.	pounds)? Do daily operating records reflect dosages, chlorine residual, etc.? Q Yes Q No
53.	Is the chlorine feed rate in proportion to the water flow rate?  Q Yes Q No
54.	Is there an alarm tied to interruption in the chlorine feed?  Q Yes Q No
55.	If more than one cylinder is used, are they manifolded with an automatic switch over to prevent running out of chlorine?  Q Yes Q No
56.	Are the cylinders on a working scale?

Q Yes Q No

- 57. Are cylinder-mounted vacuum regulators used instead of pressurized metal feed lines?Q Yes Q No
- 58. Are the cylinders in use open a "quarter-turn" with a wrench in place for quick turnoff?

   Q Yes Q No
- 59. Is the water supply to the chlorinator adequate? Q Yes Q No
- 60. Are there any potential cross connections between the chlorine feed makeup water and injection points?

  Q Yes Q No
- Are there any potential cross connections in the piping that provides split feed to both raw and finished water?Q Yes Q No

### WATER TREATMENT II

		Water System Name: Operator Name:	
		Reviewer:	
		Date:	
62.	Is there at least a 30-day supply of chlorine on		Q Yes Q No
	hand? Q Yes Q No		
63.	Is chlorine and other oxidizers properly stored and segregated from incompatible chemicals?	74.	Does the door to the chlorine room:  Q Open outward? Q Yes Q No
	Q Yes Q No		Q Have a panic bar? Q Yes Q No Q Have a window? Q Yes Q No
64.	Are the cylinders restrained to prevent falling?		Q Have proper labeling? Q Yes Q No
	Q Yes Q No	75.	Is there a chlorine cylinder repair kit on site?  Q Yes If "yes" where is it stored?
	Are they marked to indicate empty or full?  Q Yes Q No		Q No
65.	Are there means for chlorine leak detection?	76.	Is there a chlorine emergency response plan?
	Q Yes Q No		Q Yes Date of last practice Q No
66.	If automatic detectors are being used:  Date of last test?  What is the detection level? Is sensor tube screened? Q Yes Q No	77.	Is appropriate safety equipment available and in use? (For example: self-contained breathing apparatus, goggles, gloves, eyewash, etc.)
67.	Are there adequate leak containment provisions?		Q Yes Q No
	Q Yes Q No	78.	Are self-contained breathing apparatus readily available and stored outside of the chlorine
68.	Are safe practices followed during cylinder changes?		room? Q Yes   Q No
	Q Yes Q No	79.	Do all personnel receive training in the use of
69.	How many individuals are present when cylinders are changed?	19.	self-contained breathing apparatus and participate in periodic practice?
70.	Is the chlorination room separate from the office and the rest of the treatment facility?		Q Yes Date of last practice Q No
	Q Yes Q No	80.	If chlorine cylinders are transported on site by water system personnel, are requirements of 49
71.	Does the chlorination room have adequate ventilation at floor and inlet air supply from across the room at ceiling level?		CFR Parts 171 and 172 being adhered to?  Q Yes  Q No
	Q Yes Q No		RMP in place? <b>Q</b> Yes <b>Q</b> No
72.	Is the vent switch located outside and by the door?	81.	Are instrumentation and automatic and manual controls for the chlorination process: Adequate?
	Q Yes Q No		Q Yes Q No Operational? Q Yes Q No
73.	Is temperature being monitored in the chlorine feed room?		Operational? Q Yes Q No Utilized Q Yes Q No

	Backup equipment? Q Yes Q No Alternate processes? Q Yes Q No Spare parts? Q Yes Q No		
	WATER T	TREATMENT	ГП
		Operator l Reviewe	stem Name: Name: r:
83.	What is the condition of the: Chlorine feed equipment?		Utilized? Q Yes Q No
	Q Poor Q Fair Q Good Q Excellent Backup equipment? Q Poor Q Fair Q Good Q Excellent	92.	Is there adequate turbulence and mixing to avoid short circuiting and to ensure good exposure?
	Spare Parts?  Q Poor Q Fair Q Good Q Excellent		Q Yes Q No
84.	Is there a drain in the chlorine room?  Q Yes Q No  If there is a drain is it plumbed properly?  Q Yes Q No	93.	What is the condition of: UV unit Q Good Q Fair Q Poor Backup units Q Good Q Fair Q Poor
85.	Are the appropriate lighting, guards and rails, etc. in place?  Q Yes Q No	94.	Spare parts Q Good Q Fair Q Poor  Are UV units inspected and cleaned periodically?
86.	Are there other safety concerns such as electrical hazards?		Q Yes Last service date Q No
87.	Q Yes Q No	95.	What is the frequency for inspection and cleaning?
87.	Can the operator answer basic questions about the chlorine treatment process, including when and why it is done? Q Yes Q No	96.	Is adequate process control testing being done to determine the effectiveness of the UV unit?  Q Yes Q No
Ultrav	iolet Treatment		
88.	Is an ultraviolet (UV) unit being used?  Q Yes Q No (Go to question 101)	97.	Are the appropriate lighting, guards and railings etc., in place?  Q Yes Q No
89.	Is there an operation and maintenance manual and standard operating procedures for the UV unit? Q Yes Q No	98.	Are there other safety concerns such as electrical hazards?  Q Yes Q No
90.	Are flows and turbidity levels within the design specifications of the UV unit?  Q Yes Q No	99.	Are safe practices followed during operation and maintenance of the UV unit?  Q Yes Q No
91.	Are instrumentation and automatic and manual controls for the process:  Adequate?	100.	Can the operator answer basic questions about the treatment process, including what is done, as well as when and why things are done?  Q Yes Q No

82.

Is there sufficient:

101. Is an ozone unit being used?
Q Yes Q No (Go to question 115)

	WATER TREATMENT II			
		Water System Name: Operator Name:		
		Reviewer:		
		Date:		
102.	What type of ozone contractor is being used?	110.	Is adequate process control testing being done to determine the effectiveness of the ozone unit?	
	<b>Q</b> Two-level diffuser		Q Yes Q No	
	Q Multistage porous diffuser			
	Q Eductor system	111.	Are safe practices followed during operation and	
	Q Turbine		maintenance?	
	Q Pack bed		Q Yes Q No	
	<b>Q</b> Other			
103.	Is there an operation and maintenance manual and standard operating procedures for the ozone	112.	Are the appropriate lighting, guards and railing, etc. in place? <b>Q</b> Yes <b>Q</b> No	
	unit? Q Yes Q No	113.	Are there other safety concerns such as electrical hazards?	
101			Q Yes Q No	
104.	Are the temperature and pressure of the water being treated within designed specifications?  Q Yes Q No	114.	Can the operator answer basic questions about the treatment process, including what is done, as	
105.	Is the mixing during ozonation adequate?  Q Yes Q No		well as when and why things are done?  Q Yes Q No	
		Iron a	nd Manganese	
106.	Where is the ozone injected? (Check all that			
	apply)	115.	Is iron and manganese removal being	
	Q Intake Q Flash Mix		performed?	
	Q Flocculation Basin Q Top of Filters		Q Yes Q No	
	Q Sedimentation Basin Q Clearwell			
	Q Other	116.	What are the normal and peak concentrations of iron and manganese in the raw water?	
107.	Are instrumentation and automatic and manual		Iron: NormalPeak	
	controls for the process		Manganese: Normal Peak	
	Adequate? Q Yes Q No		·	
	Operational? Q Yes Q No	117.	What treatment process is used to control iron	
	Utilized? Q Yes Q No		and manganese?	
108.	What is the condition of:			
	Air dryer equipment <b>Q</b> Good <b>Q</b> Fair <b>Q</b> Poor			
	Dewpoint monitoring <b>Q</b> Good <b>Q</b> Fair <b>Q</b> Poor	118.	What chemicals are applied?	
	Ozone generator Q Good Q Fair Q Poor			
	Contractor <b>Q</b> Good <b>Q</b> Fair <b>Q</b> Poor			
	Backup equipment Q Good Q Fair Q Poor			
	Spare parts Q Good Q Fair Q Poor	119.	Where are iron and manganese control chemicals applied? (Check all that apply)	
109.	How often are ozone units cleaned?		Q Intake Q Flash Mix O Flocculation Basin Q Top of Filters	

	Q Sedimentation Basin Q Clearwell		
	Q Plant Pond Q Other		
120.	What are the normal and maximum feed rates?		
	Normal Maximum		
	WATER T	TREATMENT	т
	WIIERI		ater System Name:
			Name:
		Reviewer:_	
		Date:	
121.	Is the mixing during chemical addition adequate?		Q Yes Q No
	Q Yes Q No	130.	Do the following processes appear adequate?  Rapid Mix
122.	Do daily operating records reflect dosages, chemical use, etc.?  Q Yes Q No		Flocculation Q Yes Q No Sedimentation Q Yes Q No
123.	Are instrumentation and automatic and manual controls for the process Adequate? Q Yes Q No Operational? Q Yes Q No Utilized? Q Yes Q No	131.	Does there appear to be excessive short circuiting in the flocculation/sedimentation process?  Q Yes Q No
124.	Are there sufficient Backup equipment? Alternate processes? Spare parts?  Q Yes Q No Q Yes Q No	132.	Is there excessive floc carryover from the sedimentation process to the filter units?  Q Yes Q No
125.	Is appropriate safety equipment available and in	133.	Is sludge removal from the basins adequate? <b>Q</b> Yes <b>Q</b> No
	use? (For example: goggles , gloves, etc.)  Q Yes Q No	134.	Is there a suitable sludge plan? Q Yes Q No
126.	Have operators been trained to use the safety equipment? Q Yes Q No	135.	Is the NTU on top of the filter units 2 NTU or less?
	Has training been documented?  Q Yes Q No		Q Yes Q No
127.	Are the appropriate lighting, guards and railings etc., in place?	136.	Is adequate filtration being achieved?  Q Yes Q No
	Q Yes Q No	137.	Are instrumentation and automatic and manual controls for the filtration process
128.	Are there other safety concerns such as electrical hazards?  Q Yes Q No		Adequate? Q Yes Q No Operational? Q Yes Q No Utilized? Q Yes Q No
129.	Is there an accurate line drawing of the treatment process?	138.	Is there filter to waste capability?  Q Yes Q No

139.	Are there individual sampling points for each filter?  Q Yes Q No	
	2103 2110	
140.	Is adequate filter backwash being achieved?  Q Yes Q No	
141.	Are proper procedures for filter backwash being followed according to Standard Operating Procedures (SOP)?  Q Yes Q No	
142.	Is backwash water being monitored and Disposed of according to regulations?  Q Yes Q No	
	WATER TREA	
		Water System Name: Operator Name:
		Reviewer:
		Date:
143.	Is corrosion control necessary?  Q Yes Q No	
144.	If a corrosion control is being used, is the program adequate?  Q Yes Q No	
145.	Are SOP Manuals available?  Q Yes Q No	
146.	Are MSDS available? Q Yes Q No	
Recom	nmendations:	

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	DISTRIBUTION
	Water System Name:
	Operator Name:
	Paviowary
	Reviewer: Date:
	Dutc

1. Are as-built maps of the system located in a

readily available location?

	Q Yes Q No		Yes <b>Q</b> No
2.	Where are the maps located?	18.	What types of pipe and material are present in the distribution system?
3.	Are maps updated periodically?		
	Q Yes Q No		
4.	Are additional maps readily available for use by system personnel?  Q Yes Q No	19.	Are the distribution system pipe and material ANSI/NSF certified?
_			Q Yes Q No
5.	Is there a hydraulic model of the system?  Q Yes Q No	20.	Does the system use:
6.	Is the system interconnected with any other water system?  Q Yes Q No		Altitude valves? Q Yes Q No Pressure reducing valves? Q Yes Q No Other control valves? Q Yes Q No
7.	Are the lines in the system looped?  Q Yes Q No	21.	Are all control valves functioning properly? Q Yes Q No
8.	Does the distribution system have dead-ends?  Q Yes Q No	22.	Are control valves equipped with input and output pressure gauges?  Q Yes Q No
9.	Are there areas of the distribution system that have abnormally low flows?  Q Yes Q No	23.	What is the frequency of main breaks?
10.	Is the utility monitoring disinfection residuals throughout the distribution system?	24.	Are there adequate repair materials on hand? <b>Q</b> Yes <b>Q</b> No
	Q Yes Q No Is there at least a 0.2 mg/l disinfectant residual throughout the distribution system at all times?	25.	If repair materials are not on hand, how quickly can they be obtained?
	Q Yes Q No	26.	Does the system have a leak detection program?
11.	Are proper disinfection procedures used: In new construction? <b>Q</b> Yes <b>Q</b> No		Q Yes Q No
	After repairs? Q Yes Q No	27.	Does the system have an adequate safety policy?
12.	Is there a scheduled maintenance program? <b>Q</b> Yes <b>Q</b> No		Q Yes Q No
13.	Is there a pressure monitoring program?  Q Yes Q No		
14.	Is there an adequate flushing program?  Q Yes Q No Times/yr		
15.	Are there sufficient values to isolate lines? Q Yes Q No		
16.	Is there a value maintenance program? Q Yes Q No		
17.	Is there a corrosion monitoring program? Q		

	DISTRIBUTION  Water System Name:	
		Operator Name:
		operator runic.
		Reviewer:
		Date:
28.	Are safety practices followed during distribution system operation and repairs?  Q Yes Q No	Q Yes Q No  Role of the fire department in the determination
29.	Does the system have a backflow prevention program?  Q Yes Q No	of types and locations of new hydrants?  Q Yes Q No  Policy for fire department to report water usage to the utility?  Q Yes Q No
30.	Have all service connections been prioritized according to health hazard?  Q Yes Q No	36. What is the unaccounted for water percentage?
31.	Is the utility requiring protection on service connections with health hazards?  Q Yes Q No	
32.	Have backflow prevention devices been installed at appropriate locations such as wastewater plants, hospitals, industrial locations, etc.?	
	Q Yes Q No	
33.	Have any of the following backflow prevention assemblies been installed? Air gaps?  Q Yes Q No Vacuum breaker?  Q Yes Q Yes Q	
No	Double check valves? Q Yes Q No Reduced pressure devices Q Yes Q No Other Q Yes Q No	
34.	Is there a program to annually inspect and test the backflow prevention assemblies?  Q Yes Q No	
35.	Have the following been established between the water utility and the local fire departments?	
	Policy and procedure for notifying the fire department when hydrant is out of service?  Q Yes Q No	
	Procedure for notifying the utility when the fire department uses a hydrant?  Q Yes Q No	
	Role of the fire department in the inspection and flushing of hydrants?	

### FINISHED WATER STORAGE IV

		V	Vater System Name:
		C	Operator Name:
		_	<u> </u>
		D	Aviewer.
			Reviewer:
		L	Oate:
1.	If the tank is a hydropneumatic type what is the:		Q Yes Q No
	Cut in pressure	12.	Is the tank managed to provide turnover to
	Cut out pressure		prevent stale water?
	Air to water ratio		Q Yes Q No
2.	Are instruments and controls adequate and operational?		
	Q Yes Q No	13.	Are overflow lines, air vents, drainage lines, or
			clean out pipes:
3.	Are instruments and controls utilized and		Turned down and covered? Q Yes Q No
	maintained?		Screened? Q Yes Q No
	Q Yes Q No		Terminated a minimum of three pipe diameters
			above the ground or storage tank surface?
4.	Are instruments and controls locked and		Q Yes Q No
	properly protected?		
	Q Yes Q No	14.	Is the drain from the tank connected to a storm
	2 163 2 110	17.	water or sewer drain?
5.	Does low pressure level provide adequate		Q Yes Q No
<i>J</i> .	distribution pressure?		If yes, is there an air gap? Q Yes Q No
	Q Yes Q No		if yes, is there an all gap: Q res Q No
	Q les Q No		
6.	Are backup systems provided?	15.	Does the overflow piping extend a minimum of
0.	Q Yes Q No	15.	ten feet downgrade from the foundation of the
	d ics divo		tank?
7.	Is there a bypass so the tank can be taken out of		Q Yes Q No
/.	service?		Q Tes Q No
	Q Yes Q No	16.	Does surface runoff and underground drainage
	d les d'No	10.	
0	II.		flow away from the storage structure?  Q Yes Q No
8.	Has professional inspection been performed to		Q Yes Q No
	determine interior and exterior surface	17	
	conditions and structural integrity of the tank?	17.	Is the tank site protected against:
	0.17		Flooding? Q Yes Q No
	Q Yes Q No		Icing? Q Yes Q No
	Date of inspection:		Vandalism? <b>Q</b> Yes <b>Q</b> No
0	A LANGUAGO CI	10	
9.	Are interior coatings ANSI/NSF 61 approved?	18.	Are the tank hatches locked and properly
	Q Yes Q No		protected?
			Q Yes Q No
10.	Is the storage system designed for "direct		
	pumping" into the distribution system?	19.	Are tanks equipped with cathodic protection?
	Q Yes Q No		
			Q Yes Q No
11.	Is the storage system designed to "float" on the		
	distribution system?	20.	Can the tank be isolated from the distribution

system?	<b>Q</b> Yes	Q No	
21.	supply when the	ions for maintaining the water storage tank is out of service or emergency situations?	
	Q Yes Q No		
22.		s disinfested in accordance to wing interior maintenance?	
		FINISHED WA	ATER STORAGE IV
			Water System Name:Operator Name:
			Reviewer: Date:
23.	Is there a tap tha sample from the Q Yes Q No	t can give a representative tank?	
24.		cal samples collected and ing tank maintenance?	
25.		utions being followed during ration and maintenance?	
26.	Are safety climb tank? Q Yes Q No	ing devices installed on the	
27.	flight path are pr	the vicinity of an airport or roper markings and lighting intained according to Federal tions?	
28.	Does the tank for sound?  Q Yes Q No	undations appear structurally	
Recomn	nendations:		
			9

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DISTRIBUTION PUMPS	S, FACILITIES & CONTROLS
	Water System Name:
	Operator Name:
	Reviewer:
	Date:

Are NSF approved lubricants used? Q Yes Q No

1.

2. Is the appropriate amounts of lubricant used? Q Yes Q No

3.	Are the following control systems reliable and	
	protected?	15. Are information tags on the pumps and motors
	Low Suction Q Yes Q No	present and readable?
	Pressure Q Yes Q No	Q Yes Q No
	Lightning Q Yes Q No	Q 103 Q 110
		16 I. d
	Phase Protection Q Yes Q No	16. Is the pump packing adjusted properly?
	Thermal Q Yes Q No	Q Yes Q No
	Other Q Yes Q No	
		17. Are drains and/or sump pumps functional?
4.	Are emergency/backup power systems provided?	Q Yes Q No
	Q Yes Q No	18. Are pumping facilities equipped with climate
		control devices?
5.	Are emergency/backup power systems exercised	Q Yes Q No
5.	under load regularly?	Q 103 Q 110
	Q Yes Q No	10. Are agrimment manuals readily available?
	U Yes U No	19. Are equipment manuals readily available?
		Q Yes Q No
6.	Do rotating and electrical equipment have	
	protective guards?	20. Are safety issues such as confined spaces,
	Q Yes Q No	lockout/tagout, etc. Being addressed?
		Q Yes Q No
7.	Are the facilities maintained properly?	
	Q Yes Q No	Recommendations:
8.	Are the facilities properly protected and locked?	
0.	The the facilities properly protected and isolated.	-
	Q Yes Q No	
	Q 163 Q 100	
9.	Are underground compartments and suction	
<b>J.</b>	wells:	
	Waterproof? Q Yes Q No	
	Vented? Q Yes Q No	
	Locked? Q Yes Q	
No		
10.	Are permanent mounted ladders:	
	Structurally sound? Q Yes Q No	
	Firmly anchored? Q Yes Q	
No	·	
11.	Are ladder anchor points corroding?	
	Q Yes Q No	
12.	Are there any cross connections present?	
12.	Q Yes Q No	
	<b>4.10</b> 0 <b>4.10</b>	
13.	Ara thara adaquate records of	
13.	Are there adequate records of:	
	Operational data? Q	
	Yes <b>Q</b> No	
1.4	A 4 4 1 22 64 1 2 2	
14.	Are the rated capacities of the pumps adequate?	

Q Yes Q No

# MONITORING, REPORTING & DATA VERIFICATION Water System Name:

			Vater System Name: Operator Name:
		R	Leviewer:
		Г	Date:
Are maps maintained	to identify sampling		
points?			
Q Yes Q No			
		10.	Are copies of monitoring results on-site, fo
	itoring in the distribution		each rule?
system?			Q Lead and copper (Pb/Cu)
Q Yes Q No			Q Radionuclides (Rads)
	10		Q Inorganic chemicals (IOCs)
Are the sampling poin	its rotated?		Q Synthetic organic chemicals (SOCs)
Q Yes Q No			Q Volative organic chemicals (VOCs)
T .1 1 .			Q Nitrate/Nitrite (NO <sub>3</sub> /NO <sub>2</sub> )
Is there adequate proc	ess control monitoring for:		Q Fluoride (Fl)
DII			Q Total coliform rule (TCR)
PH	Q Yes Q No		<b>Q</b> Turbidity (Turb)
Alkalinity	Q Yes Q No	11	A
Calcium Hardness	Q Yes Q No	11.	Are copies of the following on file if
Temperature Chlorine Residual	Q Yes Q No Q Yes Q No		appropriate?
	Q Yes Q No		Q Copy of Waivers Q Production Permits
Corrosivity HPC	Q Yes Q No		Q Withdrawal Permits
Other	Q Yes Q No		Withdrawai I clinits
Is the operator following proper sampling and		Recommendations:	
testing procedures?	8 r · r · · · · · · · · · · · · · · · ·		
Q Yes Q No			
Are monthly operating	g reports (MOR's)		
submitted in a timely	manner?		
Q Yes Q No			
Are the proper numbe	r of samples being		
collected?			
Q Yes Q No			
Is effective communication procedures being			
	ne water system and the		
lab?			
Q Yes Q No			
What is the name of the	ne certified lab being used?		

WATER SYSTEM MANAGE	EMENT 8	& OPERATIONS VII
		Water System Name:
	(	Operator Name:
		Reviewer:
	I	Date:
Does the system have a sufficient number of	8.	Are administrators familiar with plant nee
certified operators at all times?  Q Yes Q No		Q Yes Q No
And the second Control of the control of the second second	0	And there less words along for
Are there sufficient facilities to store parts inventory, equipment, vehicles, traffic control	9.	Are there long-range plans for: Facility replacement Q Yes Q No
devices, lawn equipment and supplies?		Alternative sources Q Yes Q No
Q Yes Q No		Emergency response Q Yes Q No
		Long range budgeting Q Yes Q No
Are there adequate facilities for the system personnel?	10.	Does the utility maintain a complaint loc
Q Yes Q No	10.	Does the utility maintain a complaint log detailing the location and nature of compl
Have personnel been adequately trained?		Q Yes Q No
Q Yes Q No		d les d'No
Are there on-going training programs?	11.	Does the governing body appear to be effe
Q Yes Q No		in overseeing the operation and maintenar
o certified personnel attend training required for certification renewal?		the water system? Q Yes Q No
Q Yes Q No	12.	Does the utility have an active public educ
		program? Q Yes Q No
Does the employee turnover rate or the absentee		
rate appear high?  Q Yes Q No	13.	Does there appear to be adequate
Q Yes Q No		communication between the manager (superintendent) and the governing body?
Is there a formal organizational chart?		Q Yes Q No
Q Yes Q No		
	14.	Does there appear to be adequate
What is the general procedure to obtain needed		communication between the manager and
parts or maintenance?		workers? <b>Q</b> Yes <b>Q</b> No
	15.	Is there cooperation between the water off
	13.	Is there cooperation between the water off and other municipal offices?

16.	When was the last accident?		
	When was the last "serious" accident causing workday loss?		
17.	Does the utility have a confined space entry program?		
	Q Yes Q No		
18.	Are the appropriate safety equipment and protective clothing available? <b>Q</b> Yes <b>Q</b> No		
19.	Have the operators been adequately trained in safety procedures and equipment?  Q Yes Q No		
	Has training been documented?  Q Yes Q No		
	WATER SYSTEM MA	V	ENT & OPERATIONS VII Vater System Name: Operator Name:
			Deviewer:
20.	Has the utility compiled with the hazardous communication act as required by OSHA?  Q Yes Q No Q N/A		Q Yes Q No The customer's responsibility for receiving service? Q Yes Q No
21.	Does the water system have a written "mission statement" or "statement of purpose"?  Q Yes Q No		The connection fees and deposits required for service?  Q Yes Q No
22.	Does the utility have on file all documents relating to the origination or incorporation of the legal entity which is authorized to operate the system?  Q Yes Q No	25.	Do the rules and regulations governing the system operations include provisions for: The current rate schedule for each classification of customer (residential and commercial)?
23.	Does the system have other written documents or information to provide orientation and/or training to new members of the Board on duties and responsibilities of their position?  Q Yes Q No		Q Yes Q No The procedures for handling and resolving customer complaints? Q Yes Q No The dates of monthly billings and late payment charges, if any? Q Yes Q No
24.	Do the rules and regulations governing system operation include the following provisions covering:  The water system's responsibilities to the customer?	26.	Do the rules and regulations governing system operations include provisions for: Past due accounts, collections, and conditions for shut-off and restoration service?

	Prospective customers having excessive requirements for service?  Q Yes Q No  Conditions under which water main extensions for connecting new customers may be made?  Q Yes Q No	
27.	Do the rules and regulations governing system operations include procedures for making exceptions to the rules and provisions for amending the rules and regulations?  Q Yes Q No	
28.	Have customers been provided with rules and regulations of the system?  Q Yes Q No	
29.	Does the governing Board hold regularly scheduled publically announced meeting?  Q Yes Q No	
30.	Is there a written agenda prepared for each Board meeting?  Q Yes Q No	
31.	Are accurate minutes and records of all Board meetings and actions prepared and maintained?	
	Q Yes Q No	
32.	Are members of the public given time for comment at Board meetings?  Q Yes Q No	
33.	Are vacancies on the governing Board promptly and legally filled?  Q Yes Q No	
34.	Are meetings frequently canceled because of the lack of quorum?  Q Yes Q No	
	WATER SYSTEM MANAGEMENT	T & OPERATIONS VII Water System Name:
		Operator Name:
		Reviewer: Date:
35.	Copies of approved Well Head Protection Plan?	Q Yes Q No

Q Yes Q No

36.	Copies of approved Water Protection Plan?  Q Yes Q No				
Recommendations:					